

Patent Claims

1. A method for joining components under dynamic load, in particular gas turbine components, characterized in that at least two components to be joined together (10, 11; 14, 15) are joined together by laser powder build-up welding.
2. The method as recited in Claim 1, characterized in that the components to be joined together (10, 11; 14, 15) are aligned relative to one another and are joined together in this aligned position by an auxiliary weld (12; 16).
3. The method as recited in Claim 2, characterized in that the auxiliary weld (12; 16) is produced by laser welding or electron-beam welding.
4. The method as recited in Claim 2 or 3, characterized in that subsequently to producing the auxiliary weld, the actual joint of the components (10, 11; 14, 15) is produced by laser powder build-up welding (13, 17).
5. The method as recited in one or more of Claims 1 through 4, characterized in that at least two rotor discs of a compressor rotor or a turbine rotor are joined together at flanges extending in the axial direction.